## Segmental approach to word

Dr.Bashir A. Saeed

Fateh University English Language Department, Faculty of Arts, El-

rules of LA, which will serve as a background to the shall give a brief introduction to the reader to the stress proposing to repeat what has been said in these works. I studied in Brame (1973 and 1974), McCarthy (1979b), such as Palestinian, Cairene and Damascene, have been in several works. MSA and some modem Arabic dialects, modem Arabic dialects in general as well as in Libyan tollowing sections. Before proceeding to the description Halle Arabic here after (LA) in particular has been referred to Lagaa (1995) and others. In this Article, we (1990) and Halle and Vergnaud (1990), and LA in aradi Stress in Modern Standard Arabic (MSA) and most and Vergnaud (1987), Halle and Kenstowicz (1982), Abumadas, (1985), El-Gadi (1986), are not

(1) below about word stress in Arabic. of stress patterns in LA, I shall cite the following facts in

syllable Weight. Stress placement in MSA is sensitive Ö

The following syllables appear in Arabic.

- )most ( Light syllable = CV (open syllable).
- ii. Heavy syllable = CVV or CVC.
- Super heavy syllable = CVVC, CVCC.
- Ġ anything to syllable weight. super heavy, and does not contribute The final syllable is extrametrical unless it is
- 9 and proceeds as follows: The rule of stress in MSA is similar to Latin,
- Stress the ultimate syllable if it is superheavy. (CVVC or CVCC).
- if it is heavy (CVV or CVC). Otherwise stress the penultimate syllable
- Otherwise syllable stress the antepenultimate

strings. Vowels in underlying strings of elements in LA as a teature [+ or -] attaching to segments as a result of in the context of the Sound Pattern of English (hereafter, are assigned stress under certain conditions involving applying the stress rules of the language to segmental SPE) system of stress assignment. Stress in SPE is viewed The studies cited above have examined stress in LA

as follows: consonants following it. These rules can be direction from the the right edge and the summarized number 9

Monosyllabic word vowel is long or short as in: S always stressed, whether

t'aab "he repented".

s'add "dam".

sm'in "he become fat".

gr'ee "he read".

O In words consisting of two syllables or more, a is used here to represent stress: and loan words in (2.ii), where the accent mark ( ' as in the following examples, for native words in (2.1) vowel is stressed only if it is long and followed by a consonant or it is short followed by two consonants final

2. i. dukk'aan "shop"

'umm'aal "workers"

'ak'alt "I ate"

kat'abt "I wrote"

ii. SanS'iir "lift" talafz'uun "television"

 $\circ$ the ultimate, as in (3) below. Otherwise, same the conditions penultimate as assigning vowel is stressed under stress 0 the

3. i. mat'aajir "shops"

mak' aatib "offices"

kall' amtak "I spoke to you"

i. firasy'ooni "clutch"

sharaT'uuri "accelerator pedal"

- c. Otherwise, the antepenultimate vowel is stressed as in the examples in (4).
- 4. i. Sh'arika "company"

gʻaabalu

"they met"

ii. k'amira "camera"

syllable. three conditions above, one of the three right-most syllables according to the composed of more than three syllables are stressed in look beyond the It should be noted that stress rules in LA do not stress cannot go antepenultimate syllable. Words The following examples show beyond the antepenultimate

- 5, i. Mu'aamal'aat "treatments
- mul'akbaTah "mixed up"

Ξ:

- iii. makar'oonah "macaroni"
- 1111 kat afiiti "screw driver"
- ix. mara ab'eedi "footpath"

other preantepenultimate syllables. The words in (5) words, stress Stress Q S is not any syllable above have never applied before assigned more preceding than three Q the the 'n

vowels and the following segments may be. antepenultimate, no matter what the quality of the

reproduced in (6) below. (1986:76) and Laradi (1982:35). This are captured by one rule schema formulated in ElGadi generalizations about the stress assignment process LA stress system of most modem Arabic dialects. (McCarthy, 1979, Broselow 1976). All these This antepenultimate limit is a property of rule

## V[+ stress]/C((CVC)V[C]C)

(7) which are assumed to apply disjunctively: This rule abbreviates the following three rules in

- 7. a. V [+stress] / CVC'VVC
- b. V [+stress] / CVC'VVCVC
- c. V [+stress] / CVCVCV(C)

in (7) will assign stress to words in LA: The following three words show how the stress rules

`arika			'arika
The section we was made and section	mataajir	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mataajir
, , , , , , , , , , , , , , , , , , ,	## USA (Mar mar / mar gap 194 )	ban'aat	banaat
(7.c)	(7.b)	(7.a)	

in /mataajir/. Environment (7.c) provides for stress places stress on final syllable as in /ban'aat/. Environment term of underlying syllable weight. Environment (7.a) (7.b) stresses a penultimate syllable of heavy syllable It must be pointed out that stress placement works in on

antepenultimate as in /arika/.

[(SallaH+ta)] "I repaired it": the transformational cycle as a mechanism for deriving cyclic fashion. Chomsky and Halle (1968) made use of Moreover, the rule in (6) is assumed to apply in a patterns of complex words, as illustrated

sall'aHta s'allal-1+ta s'allaH [(SallaH+ta)] surface representation following addition of suffix. second cycles tress assignment first cycle stress assignment Underlying representation

see the rules above. attracts stress since the final syllable is not superheavy, syllable. When a suffix is added the penultimate syllable syllable because of the constraint in Arabic which In this illustration the root word shows stress on the stress from falling on a word final heavy

shows stress assignment according to this principle. stress if these suffixes start with a consonant. (9) below subject and object suffixes may affect the placement of far as stress assignment is concerned, both

D'arah D'arab+ik D'arabiha D'arab+uu D'arabik D'arabuu D'arab Dar'abha sing, rnasc" "he "he hit her" "he hit him" "he hit"

D'arab+na	D'arab+kum	D'arab+hurn	D'arab+ni	D'arab+ak
Dar <sup>'</sup> abna	Dar'ab+kum	Dar'abhum	Dar'abni	Darahak
"he hit us"	"he hit you, p I "	"he hit them"	"he hit me"	"he hit you, sing fem"

stress patterns found in LA. Thus, it seems that rule (6) can account correctly for

needs to be measured against the following observations: However, before this conclusion Š accepted,

syllable. However, this approach has been criticized in looked at as a property of single segment rather than a such as [+coronal] and [+ nasal], etc., so that stress is Prince 1977, Hayes, 1981, and Prince 1983). early studies same theoretical status as other segmental features, First: the rule in (6) views stress as a feature with of metrical phonology (Liberman and

affixation occurs as in the following examples: unstressed high short vowel in open syllables, when 1995) Briefly anticipating here, syncope respect to other phonological rules such as syncope epenthesis, which has been discussed in (Laga's Second: the rule in (6) must be ordered with deletes

'allim+uu+kum allim+uu+hum 'alm'uuhum "they teach them 'alm'uukum "they teach you"

morphemes, as shown by the following examples: usually arise syllabification. which cannot be properly syllabified by incorporate into wellformed function മ് Cases a result of of unsyllabified the of epenthesis syllables the continuation the rules rule consonants, consonants

11. katab+t katab+t+l+kum katah+t+ha katabt'ilkum katabit kat' abtiha "I wrote it"

"I wrote"

"I wrote to you"

the first syllable in the word stem. When the suffix (uu) affect the placement of stress. The word is stressed on syncope applying in the cycle: number of syllables. The following example shows and the the word /9alimuu/ will affect the structure of the word is added there is no change in the stress placement, /9'alimuu/. Further addition of a suffix such as /kum/ to stress placement as a result of changing the two rules (syncope and epenthesis) may

[[['alim]+uu]+kum]

alim first cycle

alim+uu second cycle

a! im'uukum Stress

alm'uu+kum syncope rule

rule in (6) predicts that a word like /banaat/ "girls" or sequence A long vowel in Arabic is derived from an underlying Third: rule (6) refers to the representation of length. of two identical vowels or morae. The stress

/taa jir/ "merchant" are assigned  $way^{(1)}$ : stress in the following

/han' aat/ subrule (7.a)

/t'aajir/ subrule (7.b)

introduced in this paper. Finally, the rule in (6) has to apply disjunctively. picture the stress system given by SPE is

۳ identical vowels by a late rule turning such sequences into a single long vowels in Arabic are derived from underlying sequences of at least two formulation of the stress rule. vowels. In my view this treatment of length is intended to simplify the Brame (1973) in his discussion of two Arabic dialects assumes that long

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